



US Army Corps
of Engineers.

Nashville District

Public Notice

Public Notice No. 05-83

Date: October 4, 2005

Application No. 200502018

Please address all comments to:

Nashville District Corps of Engineers, Regulatory Branch (Attn: Richard Graham)
3701 Bell Road, Nashville, TN 37214

SUBJECT: Proposed Highway Interchange Involving Stream Channelization and Encapsulation, and Wetland Impacts From Miles 1.0-1.3, Sullivan Branch, Opposite Cumberland River Mile 233.3L, Wilson County, Tennessee

TO ALL CONCERNED: The project described below has been submitted for a Department of the Army (DA) Permit pursuant to **Section 404 of the Clean Water Act (CWA)**. Before a permit can be issued, certification must be provided by the state of Tennessee, Division of Water Pollution Control, pursuant to Section 401(a)(1) of the CWA, that applicable water quality standards will not be violated. The applicant has applied for the State certification by separate application.

APPLICANT: Tennessee Department of Transportation (TDOT)
Suite 900, J. K. Polk Building
505 Deaderick Street
Nashville, Tennessee 37243-0334

LOCATION: Unnamed tributary to Mile 1.0L, Sullivan Branch, and Mile 1.3, Sullivan Branch, Opposite Cumberland River Mile 233.3L, Wilson County, Tennessee (USGS Quad: Martha, TN; Latitude 36 deg 10 min 41 sec; Longitude 86 deg 27 min 10 sec).

DESCRIPTION: TDOT proposes to construct a diamond interchange with loops at Beckwith Road and Interstate 40 in Mt. Juliet, Tennessee along a new alignment for public use. In so doing, they propose to encapsulate 1175 linear feet of stream, riprap 1102 linear feet of stream, permanently impact 0.929 acre of wetlands, and construct a temporary stream crossing. As mitigation, TDOT would pay \$455,400 to the Tennessee Wildlife Resources Foundation in-lieu fee stream mitigation program (@ \$200 per linear foot of stream); to debit at a 2:1 ratio 1.86 acres from available wetland credits at the Harpeth Wetland Mitigation Bank; and replace in-kind 40 linear feet of stream.

-- Sta. 15+00 to Sta 19+25 (Ramp C) [Sta. 341+ to Sta 345+, I-40]: Proposed work includes riprapping 510 feet of stream S-2; riprapping 495 feet of S-4 and placing 240 feet of 48" RCP with 40 feet of endwalls and 30 feet of riprap at the outlet; permanently impacting 0.824 acre of wetland W-3.

-- Sta. 18+00+ (Ramp A) to Sta. 23+00+ (Ramp B) [Sta. 333+ to 345+, I-40]: Proposed work includes permanently impacting 0.025 acre of wetland W-1; placing 91 feet of 53"x34" RCP with 40 feet of endwalls and 20 feet of riprap at inlet, 321 feet of 48" RCP with 35 feet of riprap at outlet, 239 feet of 54" RCP with 30 feet of riprap at outlet, and riprapping 495 feet of stream S-3; permanently impacting 0.08 acre of wetland W-2.

-- Sta. 107+47.00 (Beckwith Road): Proposed work includes replacing the existing culvert with 84 feet of 68"x43" RCP with 40 feet of riprap at outlet.

-- Sta. 348+26.46 (I-40): Proposed work includes extending the existing culvert (288 feet extension of 196 feet of 2 @ 10'x8' reinforced concrete slab bridge with 40 feet of riprap at outlet for stream S-1.

This project is not in a FEMA floodway, floodplain, or study area. It is located on Flood Insurance Rate Map Wilson County, Tennessee, Panel 70 of 170, Community-Panel Number 4702070070C. Plans of the proposed work are attached.

The decision whether to issue a permit will be based on an evaluation of the probable impacts including cumulative impacts of the activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonably may be expected to accrue from the work, must be balanced against its reasonably foreseeable detriments. All factors, which may be relevant to the work, will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. In addition, the evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under authority of Section 404(b)(1) of the CWA (40 CFR Part 230). A permit will be granted unless the District Engineer determines it to be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; federal, state, and local agencies and officials; Indian tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historical properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment (EA) and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. An EA will be prepared by this office prior to a final decision concerning issuance or denial of the requested DA Permit.

CELRN-OP-F 05-83

The National Register of Historic Places has been consulted and no properties listed in or eligible for the National Register are known which would be affected by the proposed work. This review constitutes the full extent of cultural resources investigations unless comment to this notice is received documenting that significant sites or properties exist which may be affected by this work, or that adequately documents that a potential exists for the location of significant sites or properties within the permit area. Copies of this notice are being sent to the office of the State Historic Preservation Officer.

Based on available information, the proposed work will not destroy or endanger any federally-listed threatened or endangered species or their cultural habitats, as identified under the Endangered Species Act, and, therefore, initiation of formal consultation procedures with the U.S. Fish and Wildlife Service is not planned at this time.

Other federal, state, and/or local approvals for the proposed work are as follows:

Water quality certification from the state of Tennessee in accordance with Section 401(a)(1) of the Clean Water Act.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for hearings shall state, with particularity, the reasons for holding a hearing. Written statements received in this office on or before **November 4, 2005**, will become a part of the record and will be considered in the determination. Any response to this notice should be directed to the Regulatory Branch, Attn: Richard Graham, address above, telephone (615) 369-7507, Fax (615) 369-7501. The e-mail address is richard.d.graham@lrn02.usace.army.mil.

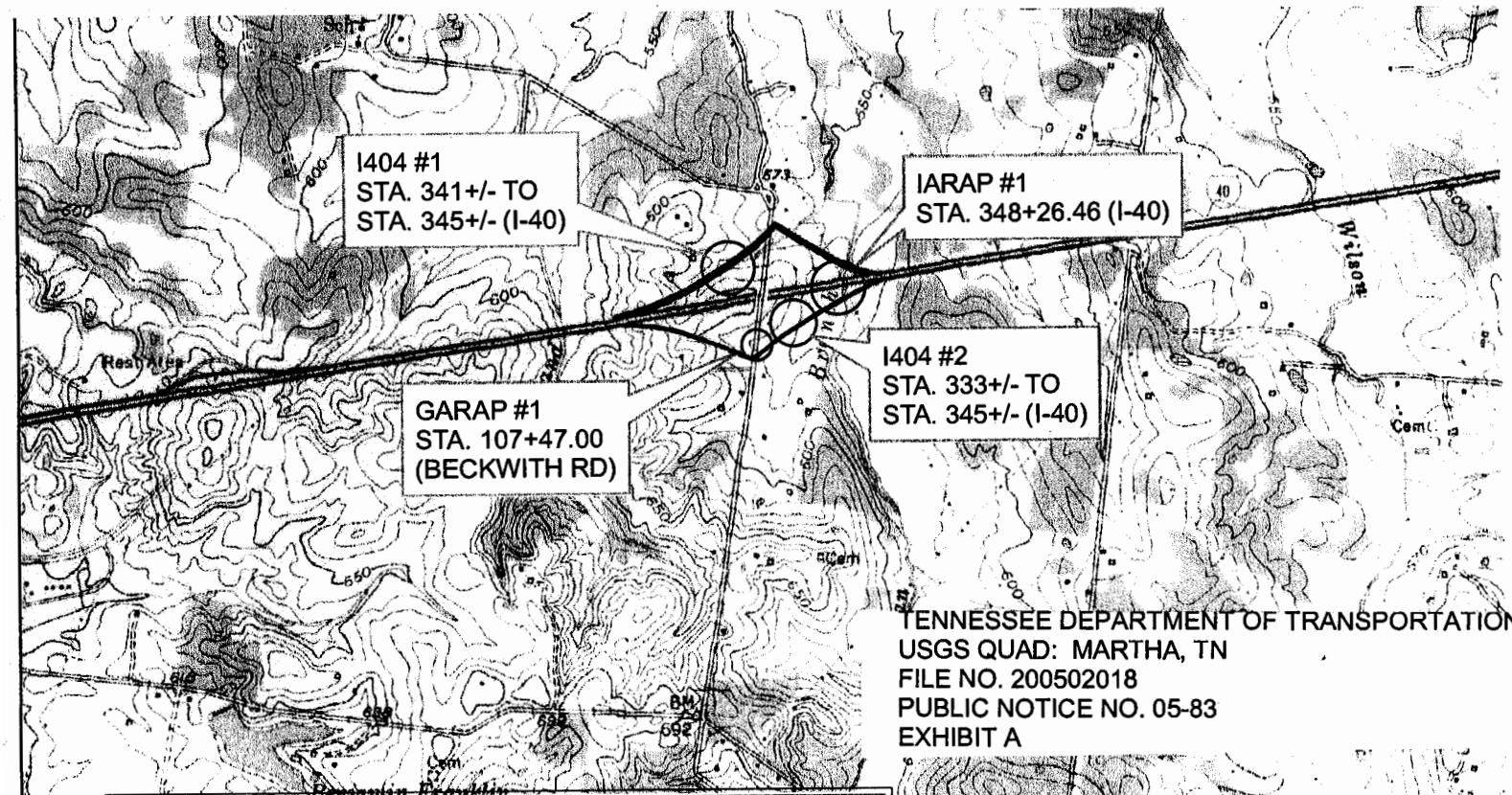
Table 1. Summary of Individual Permit (ARAP and 404) Stream Mitigation

Permit I.D.	Impact Stations	Exist. Open Stream Impact ft	Prop. Open Stream Length ft	Total Exist. Structure Length ft	Proposed Structure or Ext. ft	Total Structure Length ft	Surface Area Impact acre	Replacement Length Required ft	Replacement Length Prop. In-Kind ft	Total In-Lieu Fee Length ft	In-Lieu Fee Impact I (x 0.50) ft	In-Lieu Fee Impact II (x 0.75) ft	In-Lieu Fee Impact III (x 1.0) ft
I404 #1 (S-2)	15+00+/- to 19+25+/- (Ramp C)	510	510	0	0	0	0.03	510	0	510	0	510	0
I404#1 (S-4)	116+20 (Beckwith) to 19+25 (Ramp C)	430	525	0	280	280	0.04	430	0	430	0	430	0
I404 #2 (S-3)	Sta. 18+00+/- to 23+00+/- (Ramp B)	1135	560	85	691	691	0.07	1220	0	1220	0	529	691
IRAP #1 (S-1) (I-40)	Sta. 348+26.46	524	40	196	288	484	0.18	524	40	484	0	0	484
TOTALS		2599.0	1635.0	281.0	1259.0	1455.0	0.32	2684.0	40.0	2644.0	0	1,469	1,175
Total after application of impact class ratio (ft.):											0	1102	1175
In-Lieu Fee Costs (\$200/ft):											\$0,000	\$220,400	\$235,000

Total In-Lieu Fee Cost = \$455,400**In-Lieu Fee**

Impact I : Loss of riparian Canopy on proposed stream relocation, channel modifications that deviate from or degrade the proper pattern, profile, dimension, and/or in stream habitat (rifles, pools, structures, Etc.), and synthetic channel liners along banks

Impact II : Riprap lined channels (bottom & sides), channel modifications that significantly increase the existing channel cross sections to convey flood flows, riprap or concrete lined stream banks (both banks), impoundments

Impact III : Culverts/ Filling, loss of stream length, concrete lined channels (bottom & sides)
(x 1.0)

TENNESSEE DEPARTMENT OF TRANSPORTATION
USGS QUAD: MARTHA, TN
FILE NO. 200502018
PUBLIC NOTICE NO. 05-83
EXHIBIT A

MARTHA, TN QUADRANGLE 314-NW

APPLICATION BY:
TENNESSEE DEPARTMENT OF TRANSPORTATION
Project # 95001-1186-04
FED #IM-40-5-(129)
PIN 101974.00
SR-I40 Interchange with Beckwith Road
Wilson County
Near: Mount Juliet, Tennessee

0 650 1,300 2,600 3,900 5,200 Feet

Z

105

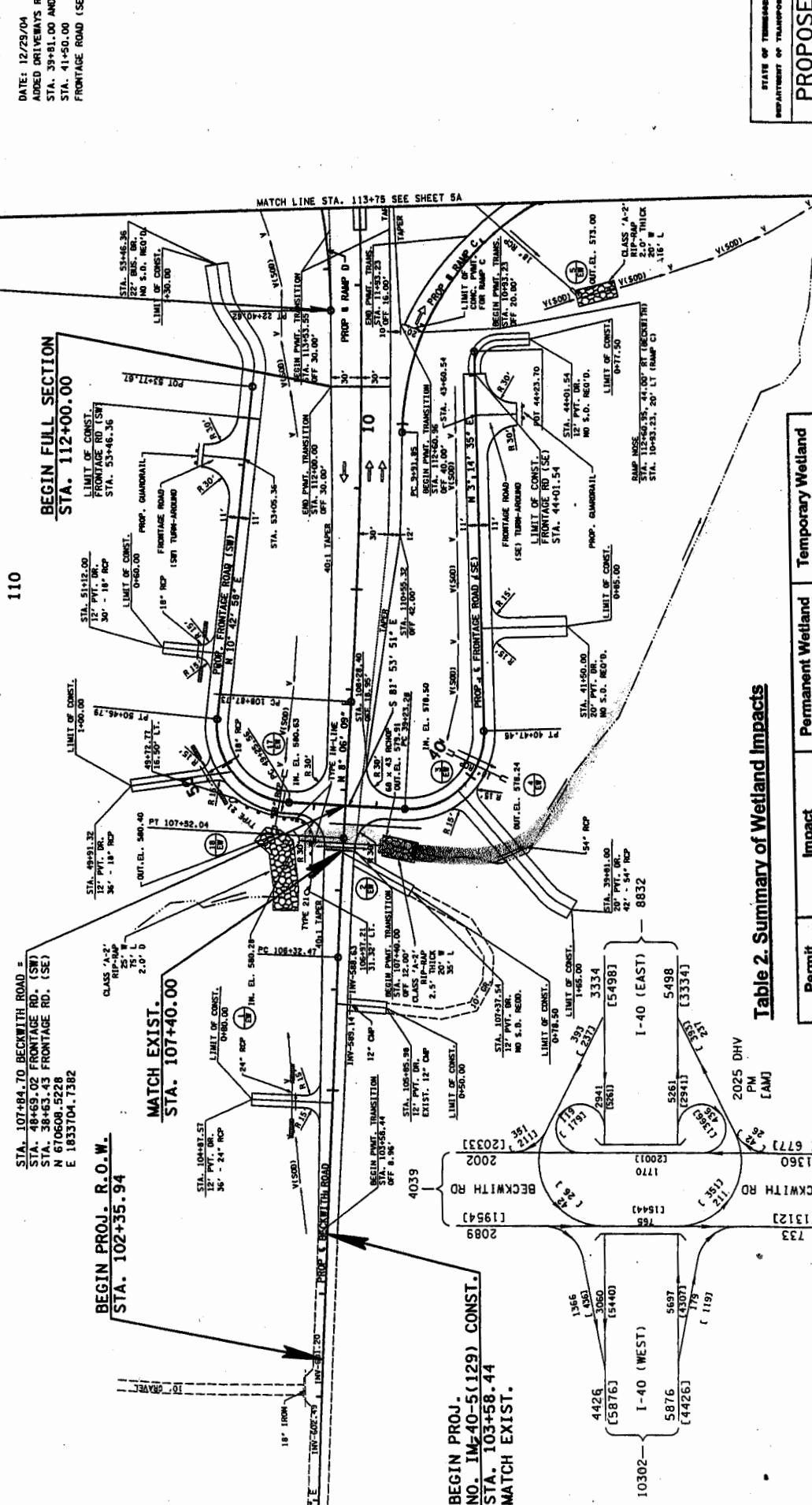


Table 2. Summary of Wetland Impacts

Permit. I.D.	Impact Stations	Permanent Wetland Impacts, Acres	Temporary Wetland Impacts, Acres
1404 #1 (W-3)	Sta. 12+90 +/- to 16+00 +/- (Ramp C)	0.824	0
1404 #2 (W-1)	Sta. 19+00 +/- to 19+40 +/- (Ramp B)	0.025	0
1404 #2 (W-2)	Sta. 24+00 +/- to 24+80 +/-	0.08	0
TOTALS (acre)		0.929	0

REVISIONS
DATE: 9/27/04
ADDED DRIVEWAYS RT.
STA. 105-85.38 AND
STA. 107-57.54
FRONTAGE ROAD (SE)

DATE: 12/29/04
ADDED DRIVEWAYS RT.
STA. 39+81.00 AND
STA. 41+50.00
FRONTAGE ROAD (SE)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT
BECKWITH ROAD
B.D.P. TO STA. 113+75
SCALE: 1" = 50'

TYPE	TEAM	PROJECT NO.	STORY NO.
R.O.W.	2004		6A
CONSTR.	2005	IM-40-511251	6A

REVISI覩NS

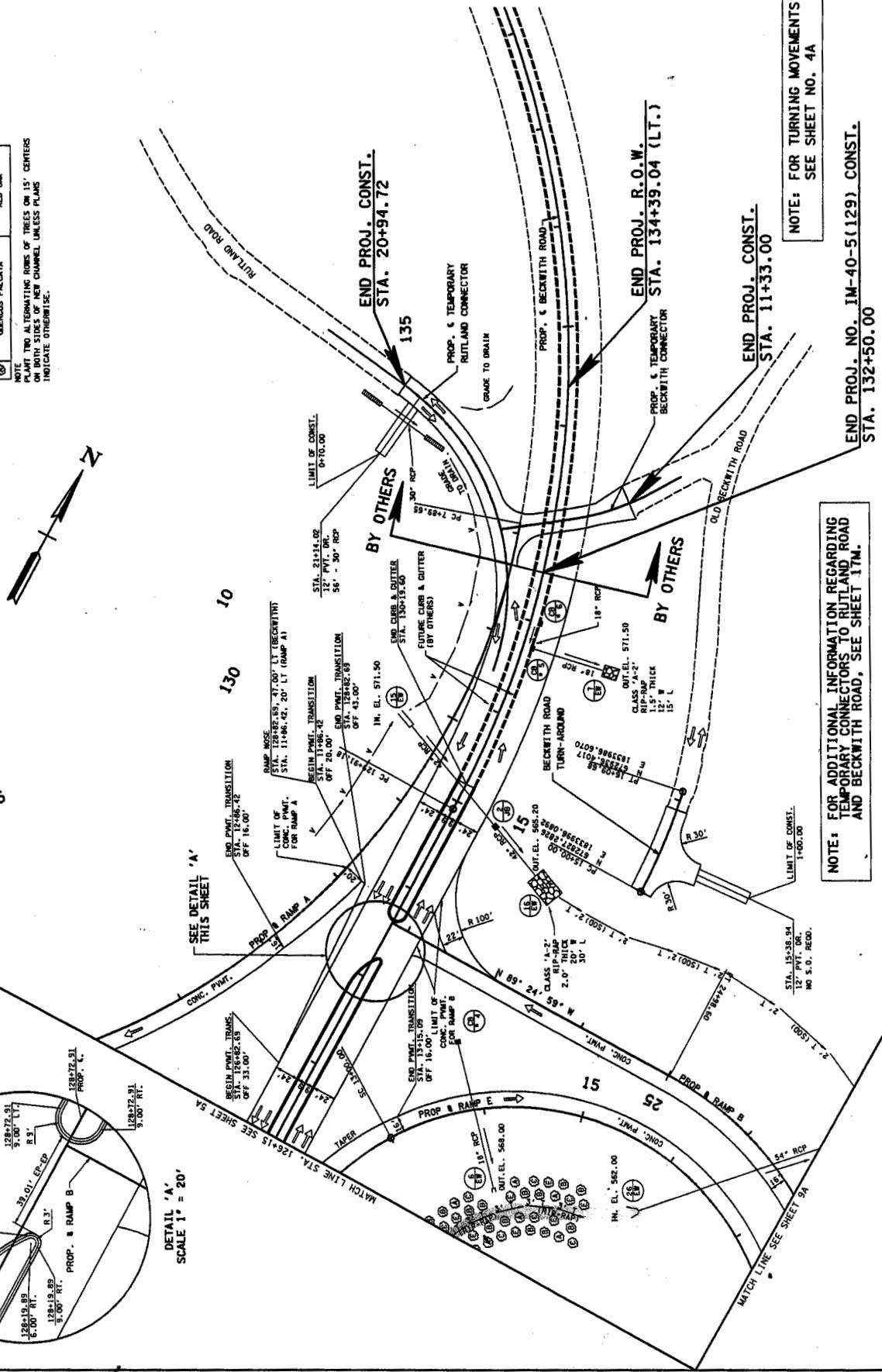
DATE: 9/27/04
REMOVED RUTLAND ROAD
TURN-AROUND AND ADDE
RUTLAND AND BECKWITH
TEMPORARY CONNECTORS

REVISED DRIVEWAY

TREE PLANTING LEGEND

JUGLANS NIGRA	BLACK WALNUT
PLATANUS OCCIDENTALIS	AMERICAN STYCAMORE
LIQUIDAMBAR STRACLIFLUA	SWEETGUM
ACER RUBRUM	RED MAPLE
QUERCUS FALCATA	RED OAK

NOTE PLANT TWO ALTERNATING ROWS OF TREES ON 15' CENTERS
ON BOTH SIDES OF NEW CHANNEL UNLESS PLANS
SEE DRAWING



NOTE: FOR ADDITIONAL INFORMATION NEAR AND TEMPORARY CONNECTORS TO RUTLAND ROAD AND BECKWITH ROAD, SEE SHEET 17M.

TENNESSEE DEPARTMENT OF TRANSPORTATION

FILE NO. 200502018
PUBLIC NOTICE NO. 05-83
EXHIBIT D

TYPE	YEAR	PLATE#.	SHEET NO.
R. O. W.	2004		BA
CONST.	2005	IM-40-511291	BA

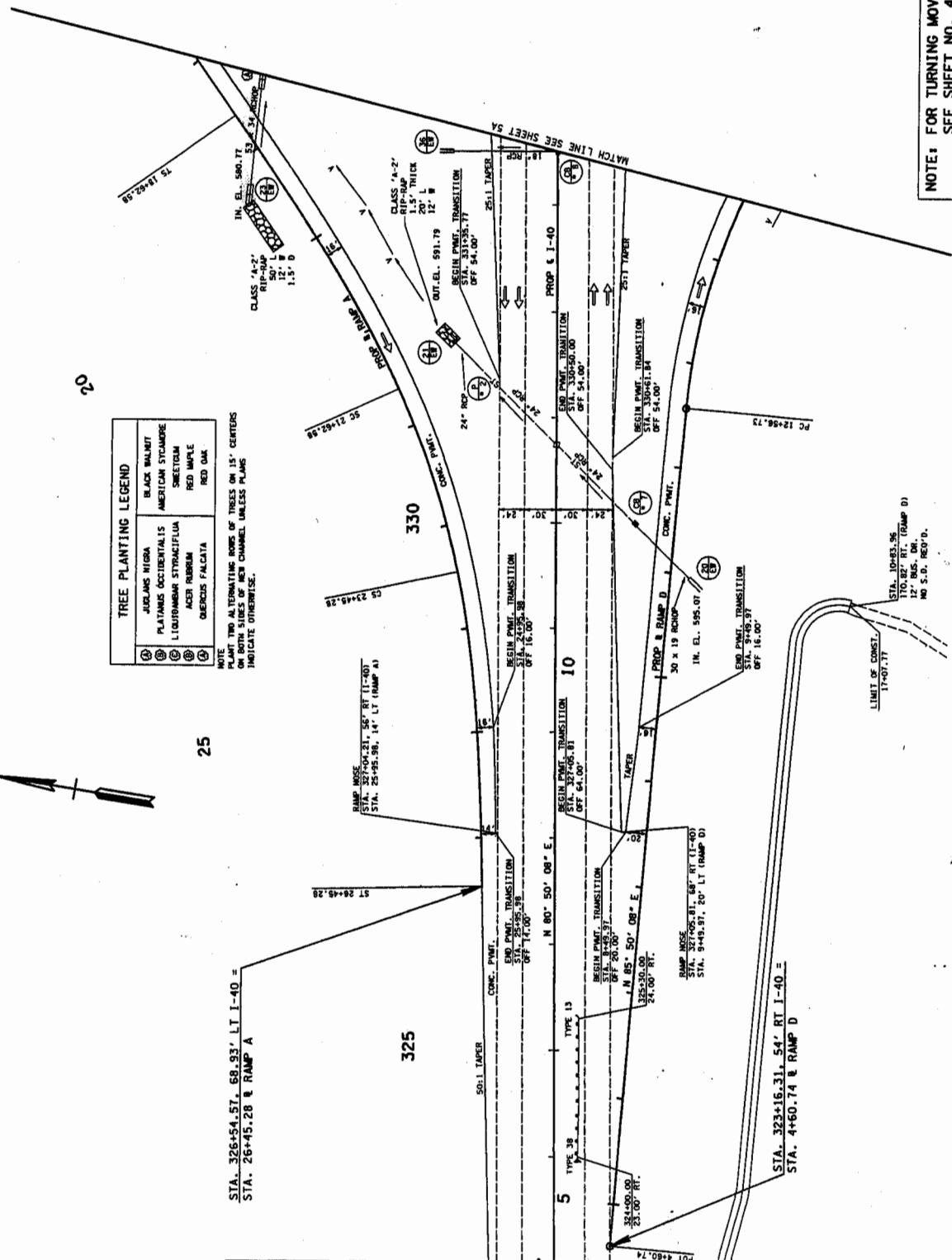
2E

NOTE PLANT TWO ALTERNATING ROWS OF TREES ON 15' CENTERS
ON BOTH SIDES OF NEW CHANNEL UNLESS PLANS
SPECIFY OTHERWISE.

TREE PLANTING LEGEND	
	BLACK WALNUT
	AMERICAN SYCAMORE
	SWEETGUM
	RED MAPLE
	COTTONWOOD
	ACER RUBRUM
	QUERCUS COCCINEA

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MATCH LINE STA. 323+00 SEE SHEET 7A



STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION
PROPOSED
AYOUT
I-40
STA. 323+00 TO STA. 333+50
SCALE: 1" = 50'

**NOTE : FOR TURNING MOVEMENTS
SEE SHEET NO. 4A**

TENNESSEE DEPARTMENT OF TRANSPORTATION

FILE NO. 200502018
PUBLIC NOTICE NO. 05-83

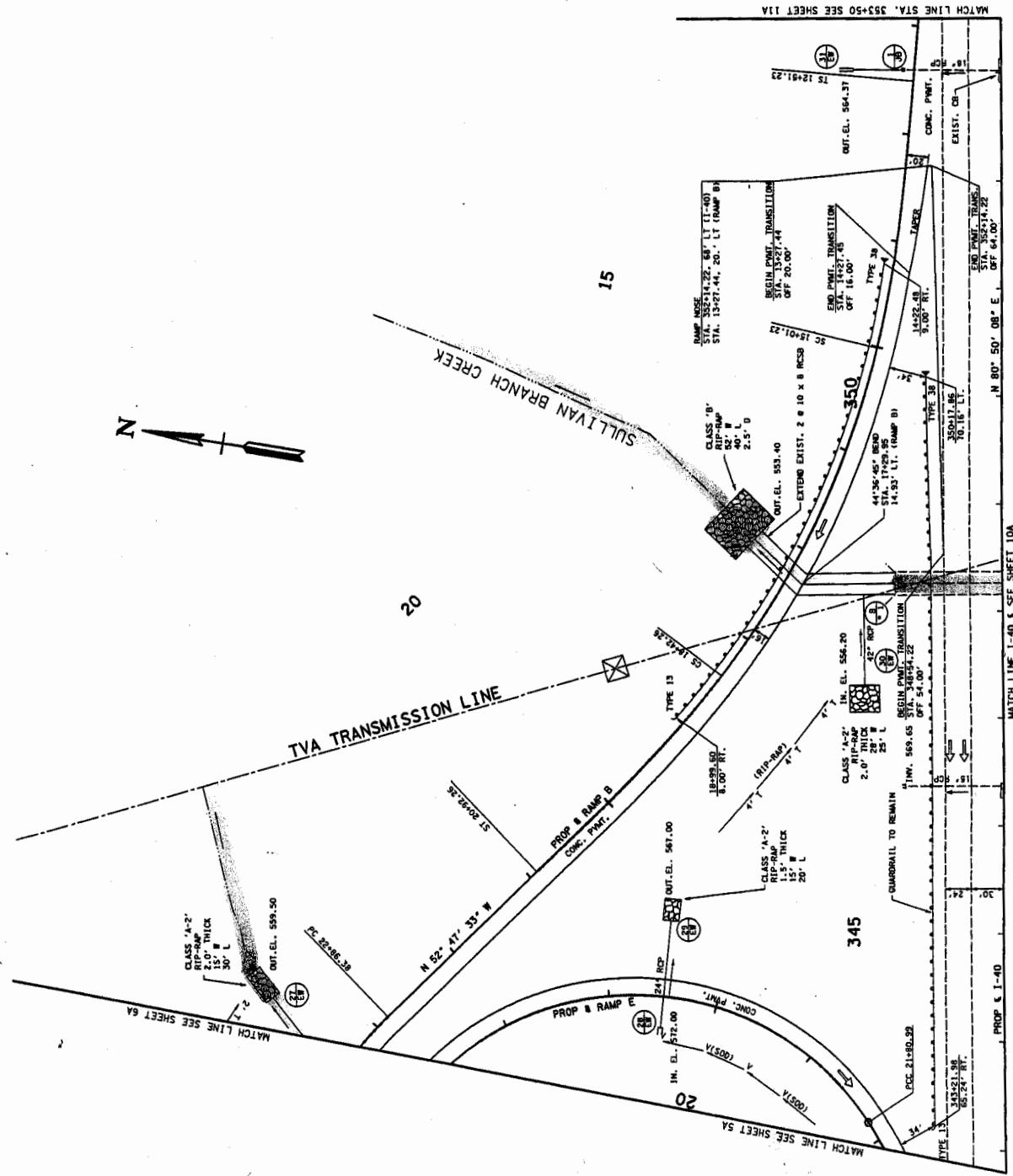
SHEET	PROJECT NO.	FILE NO.
	R.O.W.	2005
	CONST.	2005
		IN-40-S1(129) 9A

PROPOSED LAYOUT
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
STA. 343+00 TO STA. 353+50
SCALE: 1" = 50'

MATCH LINE STA. 353+50 SEE SHEET 11A
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

NOTE: FOR TURNING MOVEMENTS
SEE SHEET NO. 4A

TENNESSEE DEPARTMENT OF TRANSPORTATION
FILE NO. 200502018
PUBLIC NOTICE NO. 05-83
EXHIBIT F



TYPE	YEAR	PROJECT NO.	SPANNING MIL.
R.O.W.	2004	IN-40-S11291	104
CONSTR.	2005		

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
PROPOSED LAYOUT
1-40
STA. 343+50 TO STA. 353+50
SCALE: 1" = 50'

NOTE: FOR TURNING MOVEMENTS
SEE SHEET NO. 4A

TENNESSEE DEPARTMENT OF TRANSPORTATION
FILE NO. 200502018
PUBLIC NOTICE NO. 05-83
EXHIBIT G

350

MATCH LINE 1-40 & SEE SHEET 9A

345

MATCH LINE SEE SHEET 5A

